## **EAST Search History**

## EAST Search History (Prior Art)

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S5	1	S3 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/05 10:42
S6	21	S1 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/05 10:42
S7	11	S3 not S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/05 10:44

S8	O	S1 and S3 and S4 not S5 US PGPUB US PAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		#ADJ	S 0	2008/09/05	
S9	483	S1 or S3 or S4 not S5	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	MON Manual	2008/09/05 10:51	
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					1
"5219929"	"5238668"				1
"5240885"	"5244556"				1
"5244729"	"5247190"				1
"5248890"	"5254450"				1
"5259941"	"5260095"				1
"5262245"	"5280550"				
"5282946"	"5290609"				
"5290671"	"5290730"				
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	"5319727"				
"5320800"	"5321649"				
"5327282"	"5328580"				1
"5337374"	"5338331"				I
"5344633"	"5346563"		1		1
"5354548"	"5355248"				
	"5373175"				
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	"5384192"				
"5391756"	"5399842"	***	1		

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"5491023"	"5491767"	
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"5500764")		
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"5520807"	"5530269"	
"5532870"	"5536405"	
"5537505"	"5543237"	
"5543644"	"5545595"	
"5548474"	"5554866"	1
"5555486"	"5559912"	
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"5565273"	"5569561"	
"5570448"	"5575953"	
"5576152"	"5576564"	
"5579154"	"5581397" i	
"5583350"	"5593788"	
"5607780"	"5625233"	
"5663088"	"5672220"	
"5679494"	"5679969"	
"5683850"	"5688724"	
"5710384"	"5714402"	
"5739742"	"5757126"	
"5759653"	"5771562"	
"5811177"	"5837593"	
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PN. OR ("54		•
"5499207"	"5538796"	
"5555127"	"5563979"	
"5565071"	"5603816"	
"5613995"	"5645626"	
	"5693956"	
"5654054"		
"5738731"	"5792550"	
"5847865"	"5853830"	
"5870273"	"5882946"	
"5900057"	"5930584"	
"5952778"	"5961682"	
"6004660"	"6045626"	
"6046081"	"6051296"	
"6071323"	"6077642"	
**************************************	"6146225" I	
"6204111")		

S15	182	("3442686" "3640891"   "3857689" "3942991"   "4038090" "3067745"   "4076541" "4155735"   "4298385" "4322249"   "4350729" "4354912"   "44185151" "425464"   "4485151" "425246"   "4485151" "4525464"   "4528234" "4522190"   "4552919" "457620"   "47737015" "4923279"   "44702986" "4724169"   "4737015" "4923279"   "4940683" "4923279"   "4940683" "5027079"   "5005175" "5007698"   "5039190" "5102697"   "5108866" "5128601"   "5192410" "5279722"   "51075381 "5472795"   "51075881" "5472795"	US-PGPUB; USPAT; USOOR	ADJ	ON	2008/09/05
S16		[URPN.] ("3970360" "4284663"] '4521443" "4637025" '4679892" "4787689" "4892681" "4840816" "4846541" "4890288" "4886557" "4901321" "4896650" "4938836" "51043991" "5107538" "5114469" "5123027" "5144498" "5157765" PN. OR ("2007/0184345" "5174476" "5509252"	US-PGPUB; USPAT; USOCR	ADJ	n, 0	2008/09/05 11:01
S17	1731	S11 or S12 or S13 or S14 or S15 or S16	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/05

S18	560	S17 and ( ( (rare-earth) or (rare earth) or (rare earth) or al203 or y203 or tiol or alumina or (aluminum-oxide) or (titanium-oxide) or (titanium-oxide) or (titanium oxide) or ("A.sub.20.sub.3") or ("Y.sub.20.sub.3") or ("TiO.sub.2") with (waveguide or slab or layer)	US PCPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	• • • • • • • • • • • • • • • • • • •	2008/09/05 11:01
S19	76	S18 and buffer and amorphous	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/05 11:02
\$20	95	S18 and ((couple or coupling or coupler or coupled) with (waveguide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/05 11:09
S21	81	S20 not S19	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/05 11:09
\$22	24	S21 and S1	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/05 11:10
S23	57	S21 not S1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/09/05 11:10
S24	1378	((laser diode) with substrate) and ( (rare-earth) or (rare earth) or al2o3 or y2o3 or tio2 or alumina or (aluminum-oxide) or (aluminum-oxide) or (aluminum-oxide) or (titanium-oxide) or (r4.sub.2O.sub.3") or ("Y.sub.2O.sub.3") or ("TIO.sub.2"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/10 12:03

825	32	[((laser diode) with substrate) and (oore near5 ((rare-earth) or (lare-earth) or (lare-earth) or al2o3 or y2o3 or tio2 or aluminia or (aluminum-oxide) or (aluminum-oxide) or (titanium-oxide) or (titanium oxide) or ("titanium oxide) oxide) oxide o	US-PGPUB, USPAT; USOCR; FPRS; EPO, JPO; DERWENT; IBM_TDB	ADJ	O Z	2008/10/10 12:03
S26	9	((laser diode) with substrate) and ( core near5 ( (rare-earth) or (rare earth) or (rare earth) or alzo3 or yzo3 or tioz or alumina or (aluminum-oxide) or (aluminum-oxide) or (titanium-oxide) or (titanium-oxide) or ("titanium-oxide) or ("N. sub.2O.sub.3") or ("Y. sub.2O.sub.3") or ("TiO.sub.2")) or alumina or (aluminum-oxide) or (aluminum-oxide) or (aluminum-oxide) or (titanium oxide) or (titanium oxide) or (titanium oxide) or (titanium-oxide) or (titanium-oxide) or (titanium-oxide) or (sub.2")) or ("TiO.sub.2")	US PGPUB; USPAT; USOOR; FPRS, EPO, JPO; DEFEWENT; IBM_TDB	ADJ	ON	2008/10/10 12:04
\$27	434	("20010027159"   "20010011027159"   "20020001746"   "2002001746"   "20020014406"   "20020014406"   "20020078133"   "20020018529"   "20020115252"   "20020116252"   "20020116252"   "20020116262"   "2002011916"   "2002011916"   "20030018326"   "20030018326"   "20030018326"   "20030018326"   "20030018326"   "20030018326"   "20030018326"   "20030078888"   "20030078888"   "20030078888"   "200301127319"   "200301127319"   "20030141186"	US-PGP-US; USPAT; USOOR; FPRS; EPO, JPO; DEFEWENT; IBM_TDB	ADJ	ON	2008/10/10 12:08

"20030173207" I	1	š	i
"20030173208"			
"20030175142"			
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"20030185266"	***		
"20040043557"			
"20040077161"			
"20040105644"			
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"20050048802"			
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"20060054496"			
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"20060057304"	***		
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"5853830"   "5855744"			
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"5900057"   "5909346"	1	<b>{</b>	:

\$28 0	S26 and S2	27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	ADJ	ON	2008/10/10 12:08
28 0 0	"5552778" "566491" "6000603" "60046607 "6045626" "6051114" "6007557" "6071323" "6080643" "6107323" "6146225" "6167566" "6165566" "6176986" "6204111" "6214660" "6236793" "6248640" "6261917" "6280975" "6287986" "6290821" "6306265" "6350353" "6358010" "6365300" "6413382" "6415598" "643380" "642717" "6506289" "6537428" "6576546" "6605228" "663263" "6683264" "6768855" "6683264"	"6046081" "6051296" "6058233" "6077642" "6088492" "6108933" "6133670" "6154582" "610544" "6222442" "6222442" "62280585" "624129" "62880585" "6281429" "628694" "636694" "636694" "636694" "636687" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418645" "6418653988" "6616614" "6663746" "6818356" "681856" "681856" "681856" "681856" "681856" "681856" "681856" "681856" "681856" "681856" "881856" "681674"	US-PGPUB;	ĀDU	ON	2008/10/10

S29	4	S24 and S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/10 12:08
S30	4	("20030044118"   "6088492").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/10 12:10
S31	19	"5972516"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/10
S32	2	("7218809").FN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/10 12:24
S33	2	("5972516").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/10 12:24
S34	13	(US-20070263676-\$ or US-20050225539-\$ or US-20050225539-\$ or US-20030063629-\$ or US-20030063629-\$ or US-20030044118-\$). did. or (US-7340124-\$ or US-6549688-\$ or US-5761234-\$ or US-5761234-\$ or US-50761256-\$ or US-5972516-\$ or US-7218409-\$), did.	US-PGPUB; USPAT	ADJ	ON	2008/10/10 13:59

S35	13	(US-20070263676-\$ or US-20050225839-\$ or US-20050225839-\$ or US-20030063629-\$ or US-20030063629-\$ or US-20030064118-\$), did. or (US-7340124-\$ or US-6751241-\$ or US-6549689-\$ or US-5712516-\$ or US-5712516-\$ or US-5712516-\$ or US-712516-\$ or US-7121800-\$ or US-7	US-PGPUB; USPAT	ADJ		2008/10/11 20:12
S36	2	("6,760,520").PN.	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/11 20:13
S37	2	("20030185266").PN.	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/11 20:14
S38	15	[US-20070263676-\$ or US-20050225839-\$ or US-20080107376-\$ or US-20030063629-\$ or US-200300063629-\$ or US-20030004118-\$ or US-20030044118-\$ or US-200301624-\$ or US-675124-\$ or US-675124-\$ or US-675124-\$ or US-5761234-\$ or US-5761234-\$ or US-5761234-\$ or US-5761234-\$ or US-5761234-\$ or US-5761234-\$ or US-5765259-\$ or U	US PGPUB; USPAT	ADJ	ON	2008/10/11
839	15	(US-20070263676-\$ or US-200502265839-\$ or US-20080107376-\$ or US-20080107376-\$ or US-2003000718-\$ or US-2003000718-\$ or US-2003000718-\$ or US-2003016526-\$), did. or US-2003016526-\$), did. or US-5761234-\$ or US-6751241-\$ or US-5761234-\$ or US-5761234-\$ or US-5761234-\$ or US-5761254-\$ or US-7761260-\$ or US-77218009-\$ or US-77218009-\$ or US-77218009-\$ or US-6760520-\$), did.	US POPUB; USPAT	ADJ	<u> </u>	2008/10/25 09:36

S40	247	"111" and (laser near2 diode)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	S	2008/10/25 09:36
S41	4750	"I1" and (laser near2 diode)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	STEELEN STEELE	2008/10/25 09:36
S42	15	S39 and (laser near2 diode)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON .	2008/10/25 09:36
S43	4	S42 and (index with buffer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON .	2008/10/25 09:37
S44	0	S43 and amorphous	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	STOON STOOM	2008/10/25 09:39
S45	1	S42 and amorphous	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/25 09:39
S46	1	(10/106726).APP.	USPAT; USOCR	ADJ	ON	2008/10/25 09:41
S47	1	S42 and amorphous and buffer	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	, harmonia de la compania del compania de la compania del compania de la compania del la compania de la compani	2008/10/25 09:42
S48	5	S42 and ( buffer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	ADJ	NOS	2008/10/25 09:43

S49		S48 and ( ( (rare-earth) or al2o3 or y2o3 or tio2 or alumina or (aluminumoxide) or (aluminumoxide) or (aluminumoxide) or (tlaniumoxide) or ("Ha sub. 2O. sub. 3") or ("Y sub. 2O. sub. 3") or ("TiO. sub. 2")) with (waveguide or slab or layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			2008/10/25 09:45
S50	5	S48 and ( ( al2o3 or y2o3 or rio2 or alumina or (aluminum-oxide) or (aluminum-oxide) or ((titanium-oxide) or (titanium-oxide) or (titanium oxide) or ("Y, sub.2O.sub.3") or ("Y, sub.2O.sub.3") or ("TiO.sub.2") with (waveguide or slab or layer))	US-PGPUB; USPAT; USOCR; FPRS; EPC; JPC; DERWENT; IBM_TDB	ADJ		2008/10/25 09:45
S51	3	S50 and (laser with substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/25 09:49
S52	3	S50 and ((laser or diode) with substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/25 09:49
S53	12	S42 and ((laser or diode) with substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/25 09:52
S54	2	("7218809").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 09:55
S55	0	S54 and ((laser or diode) with substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/25 09:56

S56	1	S42 and folded	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	<b>8</b>	2008/10/25 10:01
S57	11	S42 and active	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/25 10:05
S58	6	S57 and array	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/25 10:05
S59	6	S42 and active and array	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OZ	2008/10/25 10:22
<b>S</b> 60	6	S42 and taper	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/25 10:27
S61	11	(US-20030063629-\$ or US-2003000718-\$ or US- 20030044118-\$ or US- 20030044118-\$ or US- 20030185266-\$).did. or (US-6751241-\$ or US- 6549688-\$ or US- 6088492-\$ or US- 5972516-\$ or US- 7218809-\$ or US- 6760520-\$).did.	US-PGPUB; USPAT	ADJ	ON	2008/10/25
S62	4	(US-20030044118-\$ or US-20030185266-\$).did. or (US-6088492-\$ or US- 6549688-\$).did.	US-PGPUB; USPAT	ADJ	ON	2008/10/25 10:40
S63	4	(US-20030044118-\$ or US-20030185266-\$).did. or (US-6088492-\$ or US- 6549688-\$).did.	US-PGPUB; USPAT	ADJ	ON	2008/10/25 16:55

S64	3	S63 and vertical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/10/25 16:55
S65	2	("20040105644").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/16 17:02
S66	4	(US-20030044118-\$ or US-20030185266-\$).did. or (US-6088492-\$ or US- 6549688-\$).did.	US-PGPUB; USPAT	ADJ	ON	2009/08/16 17:08
S67	4	S66 and loss	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/16 17:08

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1		((385/14) or (385/129)).OOLS.	UPAD	OR	OFF	2009/12/15 17:03
12	0	l1 and ( amorphous with (lens near2 duct)).clm.	USPAT; UPAD	ADJ	ON	2009/12/15 17:04

## 12/15/2009 5:04:37 PM

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